

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Takamitsu ASANUMA et al.

Prior Group Art Unit: 3748

Application No.: Rule 53(b) Divisional of
Application No. 09/904,875

Prior Examiner: T. Nguyen

Filed: April 22, 2004

Docket No.: 110108.01

For: A DEVICE FOR PURIFYING THE EXHAUST GAS OF AN INTERNAL COMBUSTION
ENGINE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- 2. The present application was filed or entered the U.S. National Stage of the PCT after June 30, 2003. In accordance with the June 11, 2003, Notice waiving the requirements of 37 CFR §1.98(a)(2)(i), copies of any U.S. patents and patent application publications are not attached.
- 3. A co-pending U.S. patent application (Item 19) is identified on Form PTO 1449 of this Information Disclosure Statement. The Examiner is respectfully requested to consider each cited application and the art cited therein during examination of the present application.

4. The references were cited by or submitted to the Office in parent application No. 09/904,875, filed July 16, 2001, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 CFR §1.98(d).

Respectfully submitted,


James A. Oliff
Registration No. 27,075

Joel S. Armstrong
Registration No. 36,430

JAO:JSA/ldg

Date: April 22, 2004

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

DEPOSIT ACCOUNT USE
AUTHORIZATION
Please grant any extension
necessary for entry;
Charge any fee due to our
Deposit Account No. 15-0461

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE	ATTY DOCKET NO. 110108.01	APPLICATION NO. Rule 53(b) Divisional of Application No. 09/904,875
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT(S) Takamitsu ASANUMA et al.		
		FILING DATE April 22, 2004	PRIOR GROUP 3748	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	1	5,100,632	03-31-1992	DETTLING et al.		
	2	4,902,487	02-20-1990	COOPER et al.		
	3	6,588,204	7/8/2003	HIROTA et al.		
	4	6,568,178	5/27/2003	HIROTA et al.		
	5	5,100,632	3/1992	DETTLING et al.		
	6	5,937,639	8/1999	SASAKI et al.		
	7	5,811,364	9/1998	SUGA et al.		

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
	8	JP 7-106290 B2	11-15-1995	Japan		
	9	JP 3012249 B2	12-10-1999	Japan		
	10	JP 2000-18026 A	01-18-2000	Japan		
	11	JP 9-94434 A	04-08-1997	Japan		
	12	JP 6-159037 A	06-07-1994	Japan		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						

EXAMINER	DATE CONSIDERED
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 110108.01	APPLICATION NO. Rule 53(b) Divisional of Application No. 09/904,875	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Takamitsu ASANUMA et al.		
				FILING DATE April 22, 2004	PRIOR GROUP 3748	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	13	6,167,696	1/2001	MAASEIDVAAG et al.		
	14	5,473,890	12/1995	TAKESHIMA et al.		
	15	5,709,722	1/1998	NAGAI et al.		
	16	2001/0035006	11/2001	DOU et al.		
	17	2001/0052232	12/2001	HOFFMANN et al.		
	18	2003/0115859	6/2003	DEEBA		
	19	09/979,643	11/26/2001	NAKATANI et al.		
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
	20	JP 6-272541 A	09-27-1994	Japan		
	21	JP 11-300165 A	11-02-1999	Japan		
	22	59-30507	2/25/84	JAPAN		
	23	WO 00/42302	7/20/00	WIPO		
	24	EP 0 984 142 A1	8/3/00	EUROPEAN		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
EXAMINER					DATE CONSIDERED	
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 110108.01	APPLICATION NO. Rule 53(b) Divisional of Application No. 09/904,875	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Takamitsu ASANUMA et al.		
				FILING DATE April 22, 2004	PRIOR GROUP 3748	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	25	5,850,735	12/1998	ARAKI et al.		
	26	5,974,791	11/1999	HIROTA et al.		
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
	27	04031614 A	3/2/92	JAPAN		
	28	07180536 A	7/18/95	JAPAN		
	29	60-235620	11/22/85	JAPAN		
	30	05354427 (abstract)	7/28/95	JAPAN		
	31	02070389 (abstract)	12/3/91	JAPAN		
	32	55050255 (abstract)	11/18/81	JAPAN		
	33	03344731 (abstract)	7/20/93	JAPAN		
	34	5-98932	4/20/93	JAPAN		
	35	61-28709	8/2/86	JAPAN		
	36	58-137423	8/15/83	JAPAN		
	37	11-336534	12/7/99	JAPAN		
	38	10-306717	11/17/98	JAPAN		
	39	10-220218	8/18/98	JAPAN		
	40	8-338229	12/24/96	JAPAN		
	41	7-189656	7/28/95	JAPAN		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
EXAMINER					DATE CONSIDERED	
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

Form PTO-1449 (REV. 8-83) US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			ATTY DOCKET NO. 110108.01	APPLICATION NO. Rule 53(b) Divisional of Application No. 09/904,875		
			APPLICANT(S) Takamitsu ASANUMA et al.			
			FILING DATE April 22, 2004	PRIOR GROUP 3748		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	42	6,293,096	9/2001	KHAIR et al.		
	43	6,314,722	11/2001	MATROS et al.		
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
	44	7-119444	5/1995	Japan (w/Abstract & English-translation)		
	45	4-129829	4/1992	Japan (w/Abstract only)		
	46	63-100218	5/1988	Japan (w/Abstract only)		
	47	6-159037	6/1994	Japan		
	48	6-200741	7/1994	Japan		
	49	6-117221	4/1994	Japan		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
EXAMINER					DATE CONSIDERED	
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						